

PROCEEDINGS
OF THE
UNITED STATES NATIONAL MUSEUM.
1881.

CHECK-LIST OF DUPLICATES OF FISHES FROM THE PACIFIC
COAST OF NORTH AMERICA, DISTRIBUTED BY THE SMITH-
SONIAN INSTITUTION IN BEHALF OF THE UNITED STATES
NATIONAL MUSEUM, 1881.

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HIPPOCAMPIDÆ.

1. *Hippocampus ingens* Grd.

7404. California.

SYNGNATHIDÆ.

2. *Siphostoma leptorhynchus** (Grd.) J. & G.

26808. San Diego, California.

3. *Siphostoma californiense* (Storer) J. & G.

26943. Santa Barbara, California.

27050. Monterey, California.

27199. San Francisco, California.

27380. Santa Barbara, California.

AULORHYNCHIDÆ.

4. *Aulorhynchus flavidus* Gill.

27021. Monterey, California.

GASTEROSTEIDÆ.

5. *Gasterosteus (aculeatus var.) cataphractus*† (Pallas) J. & G.

27284. Puget Sound.

6. *Gasterosteus microcephalus* Grd.

7814. San Francisco, California.

PLEURONECTIDÆ.

7. *Aphoristia atricauda* Jor. & Gilb.

27396. San Diego, California.

(Types.)

8. *Pleuronichthys verticalis* Jor. & Gilb.

26979. Monterey, California.

| 27230. San Francisco, California.

* Including *Syngnathus dimidiatus* Gill.

† *Gasterosteus serratus* Ayres.

9. *Pleuronichthys decurrens* Jor. & Gilb.

(Types.)

26978. Monterey, California. | 27115. San Francisco, California.

10. *Pleuronichthys cœnosus* Grd.

25025. Santa Catalina Island, California.		27123. San Francisco, California.
25049. Wilmington, California.		27231. " "
26769. San Diego, California.		27274. Puget Sound.
27056. Monterey, California.		27298. " "

11. *Hypsopsetta guttulata* (Grd.) Gill.

24871. San Diego, California.		26841. San Pedro, California.
24910. " "		26902. Santa Barbara, California.
26768. " "		26938. " "

12. *Cynioglossus pacificus* Lockington.

27058. Monterey, California.		27302. Puget Sound.
27228. San Francisco, California.		

13. *Glyptocephalus zachirus* Lockington.

26985. Monterey, California.		27210. Point Reyes, California.
27124. San Francisco, California.		

14. *Pleuronectes stellatus* Pallas.

22683. California.		27059. Monterey, California.
24163. San Francisco, California.		27227. San Francisco, California.
24164. " "		27273. Puget Sound.
26915. San Luis Obispo, California.		

15. *Lepidopsetta bilineata* (Ayres) Gill.

27003. Monterey, California.		27299. Puget Sound.
27117. San Francisco, California.		

16. *Parophrys ischyryus* Jor. & Gilb.

(Types.)

27266. Puget Sound.

17. *Parophrys isolepis* (Lock.) J. & G.

(Types.)

26982. Monterey, California.		27301. Puget Sound.
27116. San Francisco, California.		27347. " "
27229. " "		

18. *Parophrys vetulus* Grd.

27057. Monterey, California.		27300. Puget Sound.
27232. San Francisco, California.		

19. *Citharichthys sordidus* (Grd.) Gthr.

24168. San Francisco, California.		27233. San Francisco, California.
27002. Monterey, California.		27325. Puget Sound.
27120. San Francisco, California.		

20. *Psettichthys melanostictus* Grd.

27000. Monterey, California.		27234. San Francisco, California.
27119. San Francisco, California.		27348. Puget Sound.

21. *Hippoglossoides exilis* Jor. & Gilb

(Types.)

27061. Monterey, California. | 27121. San Francisco, California.

22. *Hippoglossoides elassodon* Jor. & Gilb.

(Types.)

27062. Puget Sound. | 27263. Puget Sound.

23. *Hippoglossoides jordani* Lockington.

26981. Monterey, California. | 27118. San Francisco, California.

24. *Paralichthys maculosus* Grd.

17063. Santa Barbara, California.		26847. San Pedro, California.
24813. San Diego, California.		26930. Santa Barbara, California.
24874. " " "		27067. Monterey, California.
25079. Santa Barbara, California.		27125. San Francisco, California.
26767. San Diego, California.		

25. *Xystreurus liolepis* Jor. & Gilb.

(Types.)

26884. Santa Barbara, California.

26. *Hippoglossus vulgaris* Flem.

27326. Straits of Fuca. (Skulls.)

27. *Atheresthes stomias* Jor. & Gilb.

(Types.)

27122. Point Reyes, California. | 27186. Point Reyes, California.

GADIDÆ.

28. *Merluccius productus* (Ayres) Gill.

27010. Monterey, California.		27203. San Francisco, California.
27167. San Francisco, California.		27295. Puget Sound.

29. *Pollachius chalcogrammus* (Pallas) J. & G.

27312. Puget Sound.

30. *Gadus morrhua* L.

27318. Puget Sound.

31. *Microgadus proximus* (Grd.) Gill.

24656. San Francisco, California.		27317. Puget Sound.
27183. " " "		

BROTULIDÆ.

32. *Brosmophycis marginatus* (Ayres) Gill.

27045. Point Reyes, California.

OPHIDIIDÆ.

33. *Ophidium taylori* Grd.

7863. California.		27393. Monterey, California.
27130. San Francisco, California.		

CONGROGADIDÆ.

34. *Scytalina cerdale* Jor. & Gilb.

(Types.)

27400. Cape Flattery, Washington Territory.

ZOARCIDÆ.

35. *Lycodopsis pacificus* Collett.

27143. Point Reyes, California. | 27334. Cape Flattery, Washington Territory.

36. *Lycodopsis paucidens** (Lock.) Gill.

27142. Point Reyes, California.

BLENNIIDÆ.

37. *Anarrhichthys ocellatus* Ayres.

23396. Neah Bay, Washington Territory.	27194. San Francisco, California.
27054. Monterey, California.	27272. Puget Sound.
27149. San Francisco, California.	.

38. *Lumpenus anguillaris* (Pallas) Gill.

27154. Puget Sound. | 27258. Puget Sound.

39. *Xiphister rupestris* Jor. & Gilb.

(Types.)

27001. Monterey, California. | 27327. Cape Flattery, Washington Territory.

40. *Xiphister mucosus* (Grd.) Jor.

26999. Monterey, California. | 27328. Cape Flattery, Washington Territory.

41. *Xiphister chirus* J. & G.

(Types.)

27175. Monterey, California. | 27338. Puget Sound.

42. *Cebedichthys violaceus* Grd.

26998. Monterey, California. | 27392. San Francisco, California.

43. *Anoplarchus alectrolophus* (Pallas) J. & G.

27339. Cape Flattery, Washington Territory.

44. *Apodichthys fucorum* Jor. & Gilb.

(Types.)

26994. Monterey, California.

45. *Apodichthys flavidus* Grd.

6674. California.	27163. San Francisco, California.
7334. San Francisco, California.	27193. " "
20328. California.	27335. Cape Flattery, Washington Territory.
23408. Neah Bay, Washington Territory.	

46. *Muraenoides ornatus*† (Grd.) Gill.

27181. Puget Sound.	27330. Cape Flattery, Washington Territory.
27192. "	

47. *Cremnobates integripinnis*‡ Rosa Smith.

20547. San Diego, California. | 27404. San Diego, California (types)

48. *Gibbonsia elegans* Cooper.

27037. Monterey, California.	27394. Monterey, California.
27383. San Diego, California.	27416. San Diego, California.

* Perhaps a form of the preceding.

† Most of the specimens distributed belong to the form called *Muraenoides letus* (Cope).‡ Probably identical with *Cremnobates monophthalmus* Gthr.

49. *Heterostichus rostratus* Grd.

- | | |
|---|-----------------------------------|
| 20570. California. | 26763. San Diego, California. |
| 24996. Wilmington, California. | 26890. Santa Barbara, California. |
| 25019. Santa Catalina Island, California. | 27201. Monterey, California. |
| 25048. Wilmington, California. | |

50. *Neoclinus blanchardi* Grd.

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|-----------------------------------|------------------------------|
| 26883. Santa Barbara, California. | 27179. Monterey, California. |
| 26942. " " " | |

51. *Neoclinus satiricus* Grd.

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|------------------------------|------------------------------|
| 22334. Monterey, California. | 27040. Monterey, California. |
|------------------------------|------------------------------|

52. *Hypoleurochilus gentilis* (Grd.) Gill.

26917. Santa Barbara, California.

BATRACHIDÆ.

53. *Porichthys porosissimus* (Cuv. & Val.) Gthr.

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|-----------------------------------|-----------------------------------|
| 26889. Santa Barbara, California. | 27132. San Francisco, California. |
| 27009. Monterey, California. | 27200. " " |
| 27063. " " " | 27277. Puget Sound. |

GOBIESOCIDÆ.

54. *Gobiesox reticulatus* Grd.

- | | |
|------------------------------|---|
| 27012. Monterey, California. | 27329. Capo Flattery, Washington Territory. |
|------------------------------|---|

LIPARIDIDÆ.

55. *Liparis pulchellus* Ayres.

27081. Monterey, California.

AGONIDÆ.

56. *Brachyopsis verrucosus* Lockington.

(Types.)

27184. Point Reyes, California.

57. *Brachyopsis xyosternus* J. & G.

(Types.)

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|---------------------------------|----------------------------|
| 27188. Point Reyes, California. | 27395. Sequel, California. |
|---------------------------------|----------------------------|

58. *Podothecus acipenserinus* (Pallas) Gill.

27332. Cape Flattery, Washington Territory.

COTTIDÆ.

59. *Ascelichthys rhodorus* J. & G.

(Types.)

27331. Cape Flattery, Washington Territory.

60. *Cottopsis gulosus* Grd.

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|----------------------------------|-----------------------------------|
| 7817. San Francisco, California. | 27390. McCloud River, California. |
|----------------------------------|-----------------------------------|

61. *Cottopsis semiscaber* Cope.

27414. Utah Lake, Utah.

62. *Cottopsis asper* (Rich.) Grd.

- | | |
|---------------------------------|--------------------------------------|
| 3306. Puget Sound. | 27145. Sacramento River, California. |
| 6052. " " | 27268. Puget Sound. |
| 12963. Mare Island, California. | 27281. Columbia River. |
| 12966. " " " | |

- 63. *Cottus polyacanthocephalus* Pallas.**
27262. Puget Sound.
- 64. *Artedius lateralis* Grd.**
23407. Neah Bay, Washington Territory. | 27337. Cape Flattery, Washington Territory.
- 65. *Artedius notospilotus* Grd.**
25037. Santa Barbara, California. | 26865. Santa Barbara, California.
25082. " " | 27146. Puget Sound.
- 66. *Artedius quadriseriatus* Lockington.**
26848. San Francisco, California. | 27133. San Francisco, California.
- 67. *Artedius pugetensis* Steind.**
27185. Point Reyes, California. | 27238. Straits of Fuca.
- 68. *Hemilepidotus spinosus* Ayres.**
27011. Monterey, California. | 27236. San Francisco, California.
27052. " " | 27381. Monterey, California.
- 69. *Hemilepidotus trachurus** (Pallas) Gthr.**
24672. Neah Bay, Washington Territory.
- 70. *Aspicottus bison* Grd.**
27261. Puget Sound.
- 71. *Scorpænichthys marmoratus* Grd.**
24142. San Francisco, California. | 27053. Monterey, California.
25038. Santa Barbara, California. | 27110. San Francisco, California.
25071. " " | 27350. Puget Sound.
26888. " " |
- 72. *Leptocottus armatus* Grd.**
24822. San Diego, California. | 27055. Monterey, California.
24862. " " | 27147. San Francisco, California.
24906. " " | 27267. Puget Sound.
- 73. *Liocottus hirundo* Grd.**
26887. Santa Barbara, California.
- 74. *Blennicottus globiceps* (Grd.) Gill.**
27336. Cape Flattery, Washington Territory.
- 75. *Oligocottus maculosus* Grd.**
27177. Monterey, California. | 27333. Cape Flattery, Washington Territory.
- 76. *Oligocottus analis* Grd.**
26761. San Diego, California. | 27415. San Diego, California.
27051. Monterey, California. |
- 77. *Blepsias cirrhosus* (Pallas) Gthr.**
27240. Straits of Fuca.
- 78. *Nautichthys oculo-fasciatus* Grd.**
27239. Straits of Fuca.

SCORPÆNIDÆ.

- 79. *Scorpæna guttata* Grd.**
24982. Wilmington, California. | 26861. San Pedro, California.
24998. " " | 26879. Santa Barbara, California.
25026. Santa Catalina Island, California. |

* *Hemilepidotus gibbsi* Gill; *Temnistia ventricosa* Rich.

80. *Sebastichthys nigrocinctus* (Ayres) Gill.

26391. Monterey, California.		27285. Puget Sound.
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81. *Sebastichthys serriiceps* Jor. & Gilb.

(Types.)

25005. San Pedro, California.		27041. Monterey, California.
26918. Santa Barbara, California.		27090. San Francisco, California.

82. *Sebastichthys nebulosus* (Ayres) Gill.

23397. Neah Bay, Washington Territory.		27093. San Francisco, California.
24674. " " "		27343. Puget Sound.
26986. Monterey, California.		

83. *Sebastichthys chrysomelas* Jor. & Gilb.

(Types.)

25076. Santa Barbara, California.		26934. Santa Barbara, California.
26880. " " "		26968. Monterey, California.

84. *Sebastichthys carnatus* Jor. & Gilb.

(Types.)

24144. San Francisco, California.		27098. San Francisco, California.
26993. Monterey, California.		

85. *Sebastichthys maliger* Jor. & Gilb.

(Types.)

2002. Puget Sound.		27208. San Francisco, California.
26970. Monterey, California.		27309. Puget Sound.
27091. San Francisco, California.		

86. *Sebastichthys caurinus* (Rich.) J. & G.

27100. Puget Sound.		27294. Puget Sound.
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87. *Sebastichthys vexillaris* Jor. & Gilb.

(Types.)

26997. Monterey, California.		27087. San Francisco, California.
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88. *Sebastichthys rastrelliger* Jor. & Gilb.

(Types.)

25023. Santa Catalina Island, California.		27033. Monterey, California.
25053. San Pedro, California.		27102. San Francisco, California.
26908. Santa Barbara, California.		

89. *Sebastichthys auriculatus* (Grd.) Gill.

15039. Mouth of Russian River, California.		26935. Santa Barbara, California.
15040. " " "		27104. San Francisco, California.
26904. Santa Barbara, California.		27293 (var). Puget Sound.

90. *Sebastichthys rubrivinctus* Jor. & Gilb.

(Types.)

26989. Monterey, California.

91. *Sebastichthys chlorostictus* Jor. & Gilb.

(Types.)

26964. Monterey, California.		27092. San Francisco, California.
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92. *Sebastichthys rhodochloris* Jor. & Gilb.

(Types.)

26967. Monterey, California.		27106. San Francisco, California.
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93. *Sebastichthys rosaceus* (Grd.) Lock.

24148. San Francisco, California.	27089. San Francisco, California.
24657. " " "	27211. " " "
26961. Monterey, California.	

94. *Sebastichthys constellatus* Jor. & Gilb.

(Types.)

24147. San Francisco, California.	27086. San Francisco, California.
26963. Monterey, California.	

95. *Sebastichthys ruber* (Ayres) Lock.

26962. Monterey, California.	27346. Puget Sound.
27097. San Francisco, California.	

96. *Sebastichthys miniatus* Jor. & Gilb.

(Types.)

26965. Monterey, California.	27213. San Francisco, California.
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97. *Sebastichthys pinniger* (Gill) Lock.

23398. Neah Bay, Washington Territory.	27099. San Francisco, California.
26966. Monterey, California.	27344. Puget Sound.

98. *Sebastichthys atrovirens* Jor. & Gilb.

(Types.)

24994. San Pedro, California.	26870. Santa Barbara, California.
25010. " " "	26903. " " "
25052. " " "	27032. Monterey, California.
25054. " " "	27096. San Francisco, California.

99. *Sebastichthys elongatus* (Ayres) Gill.

26960. Monterey, California.	27095. San Francisco, California.
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100. *Sebastichthys proriger* Jor. & Gilb.

(Types.)

24658. San Francisco, California.	27105. San Francisco, California.
26980. Monterey, California.	

101. *Sebastichthys ovalis* (Ayres) Lock.

27043. Monterey, California.

102. *Sebastichthys entomelas* Jor. & Gilb.

(Types.)

27044. Monterey, California.

103. *Sebastichthys mystinus* Jor. & Gilb.

(Types.)

26971. Monterey, California.	27085. San Francisco, California.
27031. " " "	

104. *Sebastichthys ciliatus (Tilesius) J. & G.**

27255. Kodiak, Alaska.

105. *Sebastichthys melanops* (Grd.) Gill.

24669. Neah Bay, Washington Territory.	27088. San Francisco, California.
27042. Monterey, California.	27319. Puget Sound.

106. *Sebastichthys flavidus* (Ayres) Lock.

26984. Monterey, California.	27101. San Francisco, California.
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107. *Sebastes paucispinis* (Ayres) Gill.

26950. Santa Barbara, California.	27094. San Francisco, California.
26992. Monterey, California.	

* *Perca variabilis* Pallas.

CHIRIDÆ.

108. *Hexagrammus asper* Steller.

27280. Puget Sound.

109. *Hexagrammus superciliosus* (Pallas) J. & G.

27114. San Francisco, California.

110. *Hexagrammus decagrammus* (Pallas) J. & G.

23400, ♀.*	Neah Bay, Washington Territory.	27214, ♀.	San Francisco, California.
27005, ♀.	Monterey, California.	27215, ♂.	" "
27006, ♂.†	" "	27278, ♂.	Puget Sound.
27109, ♀.	San Francisco, California.	27279, ♀.	" "
27166, ♂.	" "	27388, ♀.	San Francisco, California.

111. *Ophiodon elongatus* Grd.

6645.	California.	26893.	Santa Barbara, California.
6653.	" "	27047.	Monterey, California.
24169.	San Francisco, California.	27241.	San Francisco, California.
24670.	Neah Bay, Washington Territory.		

112. *Zaniolepis latipinnis* Grd.

27027. Point Reyes, near San Francisco, California

113. *Oxylebius pictus* Gill.

27174. Monterey, California.

114. *Anoplopoma fimbria* (Pallas) Gill.

24655.	San Francisco, California.	27282.	Puget Sound.
27128.	" "		

GOBIIDÆ.

115. *Lepidogobius gracilis* (Grd.) Gill.

27135. San Francisco, California.

116. *Gillichthys mirabilis* Cooper.

26794. San Diego, California.

LATILIDÆ.

117. *Caulolatilus anomalus*† (Cooper) Gill.

24992.	Wilmington, California.	26845.	San Pedro, California.
25002.	" "	26863.	Santa Barbara, California.
25040.	" "	27069.	Monterey, California.

ICOSTEIDÆ?

118. *Bathymaster signatus* Cope.

27265. Puget Sound.

POMACENTRIDÆ.

119. *Chromis punctipinnis* Cooper.

24981.	Santa Catalina Island, California.	25016.	Santa Catalina Island, California.
24986.	Wilmington, California.	26871.	Santa Barbara, California.
25007.	" "		

120. *Hypsypops rubicundus* (Grd.) Gill.

17764.	San Francisco, California.	25047.	Wilmington, California.
24995.	Wilmington, California.	26945.	Santa Barbara, California.

* "*Chirus guttatus*" Grd.

† "*Chirus constellatus*" Grd.

‡ Probably identical with *Latilus princeps* Jenyns.

LABRIDÆ.

121. Pseudojulis modestus (Grd.) Gthr.

25030. Santa Catalina Island, California.	26937. Santa Barbara, California.
25041. Santa Barbara, California.	26977. Monterey, California.
26882. " " "	27376. Santa Barbara, California.

122. PlatyGLOSSUS semicinctus (Ayres) Gthr.

25001. Wilmington, California.

123. Pimelometopon pulcher (Ayres) Gill.

25000. Wilmington, California.	26869. Santa Barbara, California.
25078. Santa Barbara, California.	

EMBIOTOCIDÆ.

124. HysteroCARPUS traski Gibbons.

27013. Sacramento River, California.

125. Abeona minima (Gibbons) Gill.

25085. Santa Barbara, California.	27029. Monterey, California.
26774. San Diego, California.	27078. " "
26913. Santa Barbara, California.	

126. Abeona aurora Jor. & Gilb.

(Types.)

26996. Monterey, California.	27155. San Francisco, California.
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127. Cymatogaster aggregatus* Gibbons.

26914. Santa Barbara, California.	27243. San Francisco, California.
27080. Monterey, California.	27296. Puget Sound.
27165. San Francisco, California.	

128. Brachyistius frenatus Gill.

26891. Santa Barbara, California.	26990. Monterey, California.
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129. Brachyistius rosaceus Jor. & Gilb.

(Types.)

27170. Point Reyes, California.

130. Holconotus analis (A. Agassiz) J. & G.

27075. Monterey, California.

131. Holconotus argenteus (Gibbons) J. & G.

24836. San Diego, California.	26895. Santa Barbara, California.
24914. " " "	26912. " "
25065. Santa Barbara, California.	27073. Monterey, California.
25069. " " "	27158. San Francisco, California.

132. Holconotus agassizii (Gill) J. & G.

27076. Monterey, California.	27157. San Francisco, California.
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133. Holconotus rhodoterus† Ag.

26901. Santa Barbara, California.	27074. Monterey, California.
26933. " " "	27156. San Francisco, California.

134. Amphistichus argenteus Ag.

24149. San Francisco, California.	26885. Santa Barbara, California.
25064. Santa Barbara, California.	27083. Monterey, California.
25077. " " "	

*Nos. 566, 567, 572, 17028, 17029, 17030, 17031, 17032, 17033, and 20340, sent out in previous distributions under the name of "*Holconotus rhodoterus* Ag.," belong to *Cymatogaster aggregatus*.†See note under *Cymatogaster aggregatus*.

135. *Hypsurus caryi* (L. Agass.) A. Agass.

26896. Santa Barbara, California.	27079. Monterey, California.
26940. " "	27129. San Francisco, California.
27017. Monterey, California.	

136. *Ditrema jacksoni* (Agass.) Gthr.

24157. San Francisco, California.	25017. Santa Catalina Island, California.
24835. San Diego, California.	25021. " "
24837. " "	25034. Santa Barbara California.
24983. Wilmington, California.	27014. Monterey, California.
25011. " "	27242. San Francisco, California.

137. *Ditrema laterale* (Agass.) Gthr.

24151. San Francisco, California.	27028. Monterey, California
24152. " "	27310. Puget Sound.
27153. " "	27386. "
26875. Santa Barbara, California.	

138. *Ditrema atripes* Jor. & Gilb.

(Types.)

26987. Monterey, California.

139. *Ditrema furcatum* (Grd.) Gthr.

24831. San Diego, California.	26877. Santa Barbara, California.
26777. " "	26988. Monterey, California.

140. *Damalichthys argyrosomus* (Grd.) J. & G.

6194. Puget Sound.	26054. Santa Barbara, California.
25067. Santa Barbara, California.	27018. Monterey, California.
26894. " "	27313. Puget Sound.

141. *Rhacochilus toxotes* Ag.

24154. San Francisco, California.	26949 (fetal). Santa Barbara, California.
25012. Wilmington, California.	27015. Monterey, California.
26948. Santa Barbara, California.	

SCIENIDÆ.

142. *Genyonemus lineatus* (Ayres) Gill.

26911. Santa Barbara, California.	27152. San Francisco, California.
26972. Monterey, California.	

143. *Corvina saturna* (Grd.) Gthr.

24818. San Diego, California.	26759. San Diego, California.
25075. Santa Barbara, California.	26868. Santa Barbara, California.

144. *Roncador stearnsii* (Steind.) J. & G.

25044. Wilmington, California.	26864. Santa Barbara, California
26757. San Diego, California.	

145. *Umbrina xanti* Gill.

26758. San Diego, California.	26872. Santa Barbara, California.
26849. San Pedro, California.	

146. *Menticirrus undulatus* (Grd.) Gill.

25073. Santa Barbara, California.	26854. San Pedro, California.
26797. San Diego, California.	26878. Santa Barbara, California.

147. *Cynoscion nobile* (Ayres) J. & G.

26855. San Pedro, California.	27070. Monterey, California.
26876. Santa Barbara, California.	

148. *Cynoscion parvipinnis* Ayres.

24817. San Diego, California.	26753. San Diego, California.
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149. Seriphus politus Ayres.

6657. California.
 26804. San Diego, California.
 26955. Santa Barbara, California.

27153. San Francisco, California
 27195. " "

PIMELEPTERIDÆ.

150. Girella nigricans (Ayres) Gill.

24987. Wilmington, California.
 25008. " "
 25072. Santa Barbara, California.

26867. Santa Barbara, California.
 26956. " "
 27384. San Diego, California.

151. Scorpis californiensis Steind.

24979. Santa Catalina Island, California.
 24984. Wilmington, California.

25009. Wilmington, California.
 26850. San Pedro, California.

PRISTIPOMATIDÆ

152. Pristipoma davidsoni Steind.

26853. San Pedro, California.

SERRANIDÆ.

153. Serranus clathratus (Grd.) Steind.

29571. California.
 24985. San Pedro, California.
 25013. " "
 25042. " "
 25074. Santa Barbara, California.

26799. San Diego, California.
 26851. San Pedro, California.
 26886. Santa Barbara, California.
 27046. Monterey, California.

154. Serranus nebulifer (Grd.) Steind

26754. San Diego, California.

155. Serranus maculofasciatus Steind.

24819. San Diego, California.

| 26755. San Diego, California.

CENTRARCHIDÆ.

156. Archoplites interruptus (Grd.) Gill.

27020. Sacramento River, California.

| 27137. Sacramento River, California.

STROMATEIDÆ.

157. Stromateus simillimus (Ayres) Gill.

26800. San Diego, California.
 26910. Santa Barbara, California.
 26959. " "

27077. Monterey, California,
 27162. San Francisco, California.

CARANGIDÆ.

158. Trachurus plumieri (Lac.) J. & G.

26838. San Pedro California.
 26909. Santa Barbara, California.

| 27377. Santa Barbara, California.

159. Seriola lalandi Cuv. & Val.

26835. San Pedro, California.

SCOMBRIDÆ.

160. Orcynus alalonga (Gmelin) Risso.

26873. Santa Barbara, California.

161. Sarda chilensis (C. & V.) J. & G.

25031. San Diego, California.

| 26874. Santa Barbara, California.

162. *Scomberomorus concolor* (Lock.) J. & G.

27205. Soquel, California.

AMMODYTIDÆ.

163. *Ammodytes personatus* Grd.

27025. Monterey, California.

| 27084. Monterey, California.

SPHYRÆNIDÆ.

164. *Sphyræna argentea* Grd.

25003. San Pedro, California.

26900. Santa Barbara, California.

| 26939. Santa Barbara, California.

| 27379. " "

ATHERINIDÆ.

165. *Atherinopsis californiensis* Grd.

24132. San Francisco, California.

24869. San Diego, California.

| 26764. San Diego, California.

| 26923. Santa Barbara, California.

166. *Atherinops affinis* (Ayres) Steind.

25006. Wilmington, California.

25035. Santa Barbara, California.

| 25083. Santa Barbara, California.

| 27202. San Francisco, California.

166. *Leuresthes tenuis* (Ayres) J. & G.

26766. San Diego, California.

MUGILIDÆ.

168. *Mugil mexicanus* Steind.

24827. San Diego, California.

24888. " "

26796. " "

| 26924. Santa Barbara, California.

| 27148. San Francisco, California.

SCOMBRESOCIDÆ.

169. *Tylosurus exilis* (Grd.) J. & G.

26756. San Diego, California.

170. *Scombresox brevirostris* Peters.

8885. Monterey Bay, California.

171. *Hemirhamphus rosæ* Jor. & Gill.

(Types.)

24917. San Diego, California.

| 26790. San Diego, California.

172. *Exocætus californicus* Cooper.

26832. San Pedro, California.

| 26907. Santa Barbara, California.

CYPRINODONTIDÆ.

173. *Cyprinodon californiensis* Grd.

27373. San Diego, California.

174. *Fundulus parvipinnis* Grd.

26941. Santa Barbara, California.

SCOPELIDÆ.

175. *Synodus lucioceps* (Ayres) Gill.

26881. Santa Barbara, California.

27072. Monterey, California.

| 27182. San Francisco, California.

SALMONIDÆ.

- 176. *Osmerus thaleichthys* Ayres.**
 27019. Monterey, California. | 27136. San Francisco, California.
- 177. *Osmerus attenuatus* Lockington.**
 27204. San Francisco, California.
- 178. *Hypomesus olidus* (Pallas) Gill.**
 27150. San Francisco, California. | 27276. Puget Sound.
- 179. *Thaleichthys pacificus* (Rich.) Grd.**
 20567. Columbia River, Oregon. | 27297. Frazer's River, British Columbia.
- 180. *Salvelinus malma* (Walb.) J. & G.**
 27264. Puget Sound.
- 181. *Salmo purpuratus* Pallas (*Salmo clarki* Rich.).**
 27259. Puget Sound. | 27360. Utah Lake, Utah.
- 182. *Salmo purpuratus*, subsp. *henshawi* Gill & Jordan.**
 24139. Lake Tahoe.
- 183. *Salmo irideus* Ayres.**
 26795. San Luis River, California. | 27356. Monterey, California.
 27207. Sacramento River, California.
- 184. *Salmo gairdneri* Rich.**
 27218. Columbia River.
- 185. *Oncorhynchus keta* (Walbaum) Gill & Jor.**
 24673. Neah Bay, Washington Territory. | 27288. Frazer's River, British Columbia.
 27220. San Francisco, California.
- 186. *Oncorhynchus kisutch* (Walb.) Jor. & Gilb.**
 27066. Puget Sound. | 27289. Frazer's River, British Columbia.
 27250. Sacramento River, California. | 27315. Puget Sound.
 27260. Puget Sound.
- 187. *Oncorhynchus chouicha* (Walb.) Jor. & Gilb. (*Salmo quinnat* Rich.).**
 27039. Monterey, California. | 27275. Puget Sound.
 27067. " " | 27287. Frazer's River, British Columbia.
 27217. " " | 27304. Columbia River.
 27237. Sacramento River. | 27316. Puget Sound.
- 188. *Oncorhynchus nerka* (Walb.) Gill & Jor.**
 27303. Columbia River.

ENGRAULIDIDÆ.

- 189. *Stolephorus ringens* (Jenyns) J & G.**
 24824. San Diego, California. | 26958. Santa Barbara, California.
 24919. " " | 27187. San Francisco, California.
 26784. " "
- 190. *Stolephorus delicatissimus* (Grd.) J. & G.**
 24870. San Diego, California. | 26786. San Diego, California.
- 191. *Stolephorus compressus* (Grd.) J. & G.**
 26785. San Diego, California. | 26862. San Pedro, California.

CLUPEIDÆ.

192. *Clupea sagax* Jenyns.

24820. San Diego, California.
 24857. " "
 24886. " "

26957. Santa Barbara, California,
 27140. San Francisco, California.
 27378. Santa Barbara, California.

193. *Clupea mirabilis* Grd.

24865. San Diego, California.

| 27351. Puget Sound.

ALBULIDÆ.

194. *Albula vulpes* (L.) Goode.

26789. San Diego, California.

CYPRINIDÆ.

195. *Orthodon microlepidotus* (Ayres) Grd.

2042. Puget Sound.

| 27139. Sacramento River.

196. *Alburnus balteatus* (Rich.) Jor.

2082. Puget Sound.

| 27341. Frazer's River, British Columbia.

197. *Squalius gibbosus* (Ayres) J. & G. (*Siboma crassicauda* Grd.).

27141. Sacramento River, California.

198. *Squalius atrarius* (Grd.) Jor.

27407. Utah Lake, Utah.

199. *Squalius rhomaleus* Jor. & Gilb.

(Types.)

27364. Utah Lake, Utah.

200. *Squalius cruoreus* Jor. & Gilb.

(Types.)

27408. Utah Lake, Utah.

201. *Squalius copei* Jor. & Gilb.

(Types.)

27409. Bear River, Evanston, Wyoming.

202. *Squalius aliciae* Jouy.

(Types.)

27412. Utah Lake, Utah.

203. *Squalius tænia* (Cope) Jor.

27410. Utah Lake, Utah.

204. *Squalius montanus* (Cope) Jor.

27411. Utah Lake, Utah.

205. *Ptychochilus oregonensis* (Rich.) Ag.

24128. Sacramento River, California.
 27244. " "
 27291. Columbia River, Oregon.

27352. Columbia River, Oregon.
 27389. Puget Sound.

206. *Ptychochilus harfordi* Jor. & Gilb.

(Types.)

27246. Sacramento River, California.

207. *Apocope vulnerata* Cope.

27413. Utah Lake, Utah.

208. Pogonichthys macrolepidotus (Ayres) J. & G.

27134. Sacramento River, California.

209. Mylochilus caurinus (Rich.) Ag.

27271. Puget Sound.

27283. Columbia River.

27342. Frazer's River, British Columbia.

210. Mylopharodon conocephalus Ayres.

27245. Sacramento River, California.

CATOSTOMIDÆ.

211. Chasmistes liorus Jor. & Gilb.

27361. Utah Lake, Utah.

212. Catostomus fecundus Cope & Yarrow.

27362. Utah Lake, Utah.

213. Catostomus ardens Jor. & Gilb.

(Types.)

27363. Utah Lake, Utah.

214. Catostomus occidentalis Ayres.

27131. Sacramento River, California.

215. Catostomus macrochilus Grd.

27290. Columbia River.

SILURIDÆ.

216. Amiurus catus (L.) Gill.

27144. Sacramento River, California (introduced).

MURÆNIDÆ.

217. Muræna mordax Ayres.

24991. Wilmington, California.

25004. " "

25022. Santa Catalina Island, California.

26501. San Diego, California.

ACIPENSERIDÆ.

218. Acipenser transmontanus Rich.

27065. Sacramento River, California.

27269. Frazer's River, British Columbia.

219. Acipenser medirostris Ayres.

27223. San Francisco, California.

CHIMÆRIDÆ.

220. Chimæra colliæi Bennett.

26976. Monterey, California.

27226. San Francisco, California.

27311. Puget Sound

MYLIOBATIDÆ.

221. Myliobatis californicus Gill.

24815. San Diego, California.

26781. " "

26840. San Pedro, California.

26892. Santa Barbara, California.

27256. San Francisco, California.

TRYGONIDÆ.

222. *Pteroplatea marmorata* Cooper.

26770. San Diego, California. | 26929. Santa Barbara, California.

223. *Dasybatus dipterurus* Jor & Gilb.

(Types.)

26782. San Diego, California.

224. *Urolophus halleri* Cooper.

24834. San Diego, California.		26834. San Pedro, California.
25024. San Pedro, California.		26925. Santa Barbara, California.
26788. San Diego, California.		

RAIIDÆ.

225. *Raia binocularata* Girard (*Raia cooperi* Girard).

21583. Washington Territory.		27257. Puget Sound.
27159. San Francisco, California.		

226. *Raia rhina* Jor. & Gilb.

(Types.)

27007. Monterey, California.		27292. Puget Sound.
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227. *Raia inornata* Jor. & Gilb.

(Types.)

24161. San Francisco, California.		27216. San Francisco, California.
26974. Monterey, California.		27252 (egg). " "

228. *Raia inornata* subsp. *inermis* Jor. & Gilb.

(Types.)

26926. Santa Barbara, California.

229. *Raia stellulata* Jor. & Gilb.

(Types.)

26975. Monterey, California.

RHINOBATIDÆ.

230. *Zapteryx exasperatus* Jor. & Gilb.

(Types.)

25050. San Diego, California.

231. *Rhinobatus triseriatus* Jor. & Gilb.

(Types.)

26773. San Diego, California.		26893. Santa Barbara, California.
26836. San Pedro, California.		

232. *Rhinobatus productus* Ayres.

24826. San Diego, California.		26852. San Pedro, California.
26772. " "		26905. Santa Barbara, California.

TORPEDINIDÆ.

233. *Torpedo californica* Ayres.

27212. Soquel, California (Monterey Bay).

SQUATINIDÆ.

234. *Squatina angelus* Duméril.

26920. Santa Barbara, California.

SPINACIDÆ.

235. *Squalus acanthias* L.

2638. California.		27305. Puget Sound.
6675. " "		

CESTRACIONTIDÆ.

236. *Heterodontus francisci* (Grd.) Gill.

24816. San Diego, California.		26803 (eggs). San Diego, California.
24997. Wilmington, California.		26846. San Pedro, California.
25020. Santa Catalina Island, California.		26928. Santa Barbara, California.
26760. San Diego, California.		

NOTIDANIDÆ.

237. *Notorhynchus maculatus* Ayres.

27191. Humboldt Bay.

238. *Hexanchus corinus* Jor. & Gilb.

(Types.)

27196. Soquel, California.

SCYLLIIDÆ.

239. *Catulus ventriosus* (Garman) J. & G.

25027. Santa Catalina Island, California.		26866. Santa Barbara, California.
25055. Santa Barbara, California.		26951 (egg). " "
25062. " "		27251. Soquel, California.
25084. " "		

GALEORHINIDÆ.

240. *Mustelus hinnulus* (Blainv.) J. & G.

24833. San Diego, California.		26856. San Pedro, California.
26771. " "		26906. Santa Barbara, California.

241. *Rhinotriacis henlei* Gill.

27026. Monterey, California.		27189. San Francisco, California.

242. *Triacis semifasciatus* Grd.

25039. Santa Barbara, California.		26921. Santa Barbara, California.
25081. " "		

243. *Galeorhinus galeus* (L.) Blainv.

26927. Santa Barbara, California.		27190. San Francisco, California.
26973. Monterey, California.		27391. " "

CETORHINIDÆ.

244. *Cetorhinus maximus* (L.) Blainv.

27024. (Teeth and gill-rakers). Monterey, California.

MYXINIDÆ.

245. *Polistotrema dombeyi* (Müller) Gill.

26995. Monterey, California.